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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/786,252	02/24/2004	Jae Byeong Gu	61282.00012	2712	
30256	7590 07/01/2004		EXAM	INER	
SQUIRE, SANDERS & DEMPSEY L.L.P 600 HANSEN WAY			DUONG	DUONG, THO V	
PALO ALTO, CA 94304-1043			ART UNIT	PAPER NUMBER	
			3743		

DATE MAILED: 07/01/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

			A 1		
	Application No.	Applicant(s)	 		
	10/786,252	GU, JAE BYEONG	NV		
Office Action Summary	Examiner	Art Unit	V		
	Tho v Duong	3743	,		
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with	the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a repl ly within the statutory minimum of thirty (will apply and will expire SIX (6) MONTH e, cause the application to become ABAN	ly be timely filed 30) days will be considered timely. IS from the mailing date of this communication. NDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 24 F	ebruary 2004.				
2a) This action is FINAL. 2b) ⊠ This	s action is non-final.				
3) Since this application is in condition for allowa	•	• •			
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D.	I1, 453 O.G. 213.			
Disposition of Claims					
4) Claim(s) 1-4 is/are pending in the application.					
4a) Of the above claim(s) is/are withdra	awn from consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1,3 and 4</u> is/are rejected.					
7) Claim(s) 2 is/are objected to.					
8) Claim(s) are subject to restriction and/o	or election requirement.				
Application Papers					
9)⊠ The specification is objected to by the Examine	er.				
0)⊠ The drawing(s) filed on 24 February 2004 is/are: a)□ accepted or b)⊠ objected to by the Examiner.					
Applicant may not request that any objection to the	• • • • • • • • • • • • • • • • • • • •				
Replacement drawing sheet(s) including the correct	,).		
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attached (Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	ts have been received. ts have been received in Appority documents have been re nu (PCT Rule 17.2(a)).	olication No eceived in this National Stage			
See the attached detailed Office action for a list	t of the certified copies flot re	ceiveu.			
Attachment(s)					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ∐ Interview Sur Paper No(s)/I	nmary (PTO-413) Vail Date			
 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 		rmal Patent Application (PTO-152)			

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DETAILED ACTION

Drawings

Figures 1 and 2 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawing sheets are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

The abstract of the disclosure is objected to because the abstract contains the phrase "disclosed herein". Correction is required. See MPEP § 608.01(b).

Claim Objections

Claim 1 is objected to because of the following informalities: it appears that the limitation of "at least of air guide" is typographical error. Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 4 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The claimed limitation of "the air guide is reduced downward in width and height" is not adequately described in the specification. Each individual air guide is not reduced downward in width and height. On the contrary, the air guide appears to increase in height in the downward direction.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 3 are rejected under 35 U.S.C. 102(b) as being anticipated by Liu (US 4,853,162). Liu discloses (figures 1-2) an air guide device for a cooling tower, comprising a plurality of air guides being coupled to a side surface of the cooling tower, and having a length corresponding to a width of the side surface, wherein the air guide includes an air-flow prevention wall having a curved cross section extending downwardly and outwardly; and an air

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inlet portion (11) being defined at a lower end of the air-inflow prevention wall; and the plurality of guides arranged in a vertical direction of the cooling tower. As regarding the limitations of "adapted to" it has been held that the recitation that an element is "adapted to" perform a function is not a positive limitation but only require the ability to so perform. It does not constitute a limitation in any patentable sense. In re Hutchison, 69 USPQ 138. In this case, both the prevention wall and the inlet portion as disclosed by Liu, have an ability to prevent air discharged from the cooling tower from flowing back to the cooling tower and to allow inflow of outside air into the cooling tower respectively.

Allowable Subject Matter

Claim 2 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

At this point of the examination, the subject matter shown in figure 7, which examiner thinks claim 4 is trying to reflect on, is not found in the prior art.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Katz (US 3,687,425) discloses a heat and mass transfer by direct contact.

Tippmann et al. (US 5,112,371) discloses a radial flow cooling tower with air guide.

Cates (US 3,923,935) discloses a parallel air path wet-dry water cooling tower.

Toyohiko Aoki (US 3,479,799) discloses apparatus having air guide with curved cross section.

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Heller et al. (US 3,933,196) discloses a cooling tower with movable opening shutters.

Myer-Pittroff (US 4,662,902) discloses an evaporation cooling tower that has an air guide extending downwardly and outwardly.

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Tho Duong whose telephone number is (703) 305-0768. The examiner can normally be reached on from 9:30-6 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Bennet, can be reached on (703) 308-0101. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0861.

TD

June 22, 2004

Tho Duong

Patent Examiner.

Thoramus